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09/765,253	01/18/2001	Jean-Philippe D. Hausler	5330.1	8171
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J. Robert Brow	vn, Esq.	ZIA, MOSSADEQ		
WORSHAM, FORSYTHE & WOOLDRIDGE, L.L.P.			ADTIBUT	DADED NUMBER
Energy Plaza, 30th Floor			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
• · · · · · · · · · · · · · · · · · · ·	09/765,253	HAUSLER, JEAN-PHILIPPE D.
Office Action Summary	Examiner	Art Unit
	Mossadeq Zia	2134
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, and if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by so any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	DN. FR 1.136(a). In no event, however, may a ren. a reply within the statutory minimum of thirderiod will apply and will expire SIX (6) MON statute, cause the application to become AE	reply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).
Status		
1) ■ Responsive to communication(s) filed on 2 2a) ■ This action is <b>FINAL</b> . 2b) ■ 3) ■ Since this application is in condition for all closed in accordance with the practice unc	This action is non-final.  owance except for formal matt	
Disposition of Claims		
4) Claim(s) <u>1-22</u> is/are pending in the application 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed.  6) Claim(s) <u>1-22</u> is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and contains the application Papers	ndrawn from consideration.	
9) The specification is objected to by the Exar	miner.	
10)☐ The drawing(s) filed on is/are: a)☐	accepted or b)□ objected to	by the Examiner.
Applicant may not request that any objection to		
Replacement drawing sheet(s) including the co		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority document of the certified copies of the priority document of the certified copies of the application from the International But * See the attached detailed Office action for a certified copies of the action for a certified copies of the attached detailed Office action for a certified copies of the attached detailed Offie	nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	Application No  received in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)
<ol> <li>Notice of References Offed (1 10-032)</li> <li>Notice of Traftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date</li> </ol>	Paper No(	(s)/Mail Date Informal Patent Application (PTO-152)

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#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. Claims 1-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Patent Pub No. US 2001/0012362 A1, Marzahn.
- 3. Regarding claim 1, Marzahn shows a method for encrypting a message, comprising:

identifying a message to be encrypted, the message having a plurality of characters (input source file, Marzahn, page 1, col. 2, sec. 0010);

providing an encryption key array (Matrix Array) having a plurality of records, each record of the encryption key array having a plurality of elements (Marzahn, page 2, sec. 0015);

associating characters of the message (String Pointer) with the encryption key array (Marzahn, page 2, sec. 0015); and

generating an encrypted message by storing a value representing the association of the encryption key array with characters of the message (MAP, Marzahn, page 2, sec. 0015).

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- 4. Regarding claim 2, Marzahn shows claim I above, and further show providing the encryption key includes generating the encryption key such that each element of one of the plurality of records contains value that is unique to the value contained in each other element in the same record of the encryption key array (Marzahn, page 6, col. 2, sec. 0123).
- Regarding claim 3, Marzahn shows claim 2 above, and further show wherein associating the characters of the message with the encryption key array includes associating the character of the message with one of the plurality of records within the encryption key array and further associating the character the message with one of the plurality of elements of the associated record of the encryption key array and obtaining the value contained within the associated element (MAP, Marzahn, page 2, sec. 0015).
- 6. Regarding claim 4, Marzahn shows claim 3 above, and further show associating the character of the message with one of the plurality of records within the encryption key array comprises:

associating the position of the character within the message relative to other characters of the message with the position of one of the plurality of records within the encryption key array relative to other records of the encryption key array (relative offset, Marzahn, page. 2, sec. 0017); and

associating the character of the message with the position of one the plurality of elements within the associated record of the encryption key array (targeted for replacement, Marzahn, page 2, sec. 0015).

7. Regarding 5, Marzahn show an method for encrypting and decrypting a message, comprising:

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identifying a message to be encrypted, the message having a plurality of characters (input source file, Marzahn, page 1, col. 2, sec. 0010);

generating an encryption key array having a plurality of records, each record of the encryption key array having a plurality of elements (Matrix Array, Marzahn, page 2, sec. 0015) such that each element of one of the plurality of records contains a value that is unique to the value contained in each other element in the same record of the encryption key array (Marzahn, page 6, sec. 0123);

associating characters (String Pointer) of the message with the encryption key (Marzahn, page 2, sec. 0015);

generating an encrypted message storing encrypted characters representing the association of the encryption key array with characters of the message;

associating the encrypted characters of the encrypted message with the encryption key array (MAP, Marzahn, page 2, sec. 0015); and

generating an decrypted message storing a value representing the association of the encryption key array with encrypted characters of the encrypted message (decryption, method, Marzahn, page 2, sec. 0022).

8. Regarding claim 6, Marzahn shows claim 5 above, and further show associating the characters of the message with the encryption key array comprises:

associating the position of the characters within the message relative to other characters of the message with the position of one of the plurality of records within the encryption key array relative to other records of the encryption key array (offset, Marzahn, page. 2, sec. 0017);

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associating the characters of the message with the position of one of the plurality of elements within the associated record of the encryption key array (targeted for replacement, Marzahn, page 2, sec. 0015); and

determining the value contained within the associated element (Marzahn, page 2, sec. 0018).

9. Regarding claim 7, Marzahn shows claim 6 above, and further show associating the encrypted characters of the encrypted message with the encryption key array comprises:

associating the position of the encrypted character within the encrypted message relative to the other encrypted characters of the encrypted message with the position of one of the plurality of records within the encryption key array relative to the other records of the encryption key array; and

associating the encrypted characters of the encrypted message with the position of one of the unique values contained in one of the plurality of elements within the associated record of the encrypted key array (Decryption steps, Marzahn, sec. 0022).

- 10. Regarding claim 8, see reasoning in claim 1 above.
- 11. Regarding claim 9, see reasoning in claim 2 above.
- 12. Regarding claim 10, see reasoning for claim 6 above.
- 13. Regarding claim 11, Marzahn, show a system for encrypting a message, comprising:

storage device (hard drive, Marzahn, page 1, sec. 0009); processor programmed to:

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identify a message to be encrypted, the message having a plurality of characters (input source file, Marzahn, page 1, col. 2, sec. 0010);

provide an encryption key array (Matrix Array) having a plurality of records, each record of the encryption key array having a plurality of elements (Marzahn, page 2, sec. 0015);

associate characters of the message (String Pointer) with the encryption key array (Marzahn, page 2, sec. 0015); and

generate an encrypted message by storing a value representing the association of the encryption key array with characters of the message (MAP, Marzahn, page 2, sec. 0015).

- 14. Regarding claim 12, see reasoning in claim 2 above.
- 15. Regarding claim 13, see reasoning for claim 6 above.
- Regarding claim 14, Marzahn shows claim 13 above, and further show the processor is firmware (burned into ROM, Marzahn, page 1, sec. 0009).
- 17. Regarding claim 15, Marzahn shows claim 13 above, and further show the processor hardware (Marzahn, page 1, sec. 0013).
- 18. Regarding claim 16, Marzahn shows a method for concealing information within a data file, comprising:

providing a first data file (input file) having a plurality of records (inherent: records make up the content of a file), each record the first data file having a plurality of elements (Marzahn, page 1, col. 2, sec. 0010);

providing information having a plurality of elements (inherent to contents of a file, i.e., each value stored in the file); and

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generating a second data file by combining elements of the information with elements of the first data file such that the first and second data files are substantially similar (output file, Marzahn, page 1, col. 2, sec. 0010).

- 19. Regarding claim 17, Marzahn shows claim 16 above, and further show generating the second data (Matrix Array) includes associating at least one element of the information with one of the plurality of records within the first data file and further associating the element of the information with one of the plurality of elements of the associated record of the first data file (Marzahn, page 2, sec. 0015).
- Regarding claim 18, Marzahn shows claim 17 above, and further show the first data is a data file selected from a group of data files consisting of an audio file, a video file, an audio-visual file, and a graphics file, and wherein the second data file is a data file selected from a group of data files consisting of an audio file, a video file, an audio-visual file, and a graphics file (input/output files are indifferent to type of data they store, Marzahn, page 1, sec. 0010).
- 21. Regarding claim 19, Marzahn shows claim 18 above, and further show the information concealed within the data file is an encryption key array (input source file is encrypted, Marzahn, page 1, sec. 0010).
- Regarding claim 20, Marzahn shows claim 17 above, and further show generating the second data file further includes obtaining a value relative to the association of the information with the first data file and storing the value in the second data file (separate output file, Marzahn, page 1, sec. 0010).
- 23. Regarding claim 21, Marzahn shows claim 20 above, and further show the first data is data file selected from a group of data files consisting of an audio file, video file,

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an audio-visual file, and a graphics file, and wherein the second data file is a data file selected from a group of data files consisting of an audio file, video file, an audio-visual file, and a graphics file (input/output files are indifferent to type of data they store, Marzahn, page 1, sec. 0010).

## Claim Rejections - 35 USC § 103

- 24. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Patent Pub No. US 2001/0012362 A1, Marzahn in view of Patent No. 6,249,866, Brundrett et al.
- 26. Regarding claim 22, Marzahn shows claim 21, but fail to further show the information concealed within the data file is an encryption key array.

However, Brundrett teaches that the randomly generated FEK 60 [File Encryption Key] (encryption key array) is itself encrypted with the public key 72 of at least one user, and stored with the encrypted file 70 in a special EFS attribute called the Data Decryption Field (DDF) 74 (col. 10, line 10-14).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Marzahn as per teaching of Brundrett to include an improved system and method for encrypting data that is integrated into a file system (col. 2, line 10-12).

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mossadeq Zia whose telephone number is 703-305-8425.

The examiner can normally be reached on Monday-Friday between 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Morse can be reached on 703-308-4789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mossadeq Zia Examiner Art Unit 2134

mz 7/7/04

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